

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0524 Reclamation District No. 0524 Middle Roberts Island	Overall LMA Rating	Total LMA Miles						
	U	6.26						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.17	0.30	1.37	21.88%	0.07	0.02		
Trim / Thin Trees	0.90	0.09	1.26	20.13%				
Encroachments	0.09	0.02	0.17	2.72%	0.23	0.12		
Animal Control	0.32		0.32	5.11%				
Slope Stability	0.22	0.01	0.26	4.15%				
Erosion / Bank Caving	0.11	0.01	0.15	2.40%				
Crown Surface / Depressions / Rutting	0.05		0.05	0.80%				
Operations & Maintenance Manuals	0.06		0.06	0.96%				
Emergency Supplies & Equipment	0.06		0.06	0.96%				
Flood Preparedness & Training	0.06		0.06	0.96%				
<i>Interior Drainage & Piping Systems</i>								
Metal Pipes	0.01		0.01	0.16%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02	0.49	1.98	31.63%				
<i>LMA Totals:</i>	2.08	0.92	5.76	92.01%	0.30	0.14	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an induction of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.26
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	03/26/2013 - 03/26/2013		10/22/2013 - 10/22/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Mario Jaques RD 524		Mario Jaques RD 524	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
1	0.00	0.00	Earthen Levee	Operations & Maintenance Manuals	WS	M Ma				°	° 121
										°	°
DWR ID: DWR_RD0524_01_s_2012_121											
2	0.00	0.00	Earthen Levee	Flood Preparedness & Training	WS	M Ma				°	° 123
										°	°
DWR ID: DWR_RD0524_01_s_2012_123											
3	0.00	0.00	Earthen Levee	Emergency Supplies & Equipment	WS	M Ma				°	° 138
										°	°
DWR ID: DWR_RD0524_01_s_2013_138											
4	0.18	0.18	Supplemental DWR Erosion Survey		WS	U Ma	Inspector Comments: 08/13/2013: Erosion was discovered during 2013 spring levee inspection. Inspector comment: Erosion is located along the lower level of waterward slope. [2013 Site ID:RD0524U01RM40.85]			37.939085 ° -121.343917 °	37.939085 ° -121.343917 ° Y
										DWR ID:	
5	0.22	0.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.			37.938890 ° -121.343657 °	37.938890 ° -121.343657 ° 3 Y
										DWR ID:	DWR_RD0524_01_s_2012_3
6	0.36	0.36	Earthen Levee	Encroachments	LS	M Ma	GA : Garbage			37.938338 ° -121.341290 °	37.938338 ° -121.341290 ° 15 Y
										DWR ID:	DWR_RD0524_01_s_2012_15
7	0.40	0.40	Supplemental DWR Erosion Survey		WS	U Ma	Inspector Comments: 08/13/2013: No significant change at this site. 8/7/2012: Erosion is at the upper levee slope, and likely caused by slope slip. The lower levee slope is covered with dense vegetation. [2013 Site ID:RD0524U01RM40.99]			37.938870 ° -121.340460 °	37.938870 ° -121.340460 ° 5 Y
										DWR ID:	
8	0.53	0.60	Supplemental DWR Erosion Survey		WS	C Ma	Inspector Comments: 08/13/2013: Repaired site. No new erosion found at the site. 08/07/2012: The site has been visited by boat survey. The site seems to have been repaired. 08/23/2011: No significant changes observed on site. 09/07/2010: No significant changes observed on site. Some emergent vegetation is visible at the lower and middle slope. Existing revetment is no longer adequately protecting the over-steepened slope. Some of the broken concrete used as revetment has slid, dragging levee materials away from the slope and creating notches. 09/29/2009: Erosion site extends from RM 41.11 to 41.18; existing revetment is no longer adequately protecting the over-steepened slope. 2008: Existing concrete slabs were placed as temporary fix; some of the slabs have started to slide, dragging levee materials away from the slope and creating notches; note that a sewage treatment plant is located on the landside of the levee. [2013 Site ID:RD0524U01RM41.15]			37.938895 ° -121.337602 °	37.938895 ° -121.337602 ° 29
										DWR ID:	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating	N : Not Inspected/Rated	+ Issue Type
A : Acceptable		Ma : Maintenance Deficiency
M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
9	0.63	0.63	Earthen Levee	Slope Stability	WS Ma	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.938247 ° -121.336503 °	37.938247 ° -121.336503 °	10 Y	
										DWR ID: DWR_RD0524_01_s_2012_10	
10	0.63	0.64	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.938247 ° -121.336503 °	37.938197 ° -121.336405 °	11 Y	
										DWR ID: DWR_RD0524_01_s_2012_11	
11	0.65	0.66	Earthen Levee	Slope Stability	WS Ma	M	S1 : Repair slope instability.	37.938105 ° -121.336288 °	37.938023 ° -121.336173 °	13 Y	
										DWR ID: DWR_RD0524_01_s_2012_13	
12	0.68	0.68	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.937808 ° -121.335913 °	37.937808 ° -121.335913 °	14 Y	
										DWR ID: DWR_RD0524_01_s_2012_14	
13	0.77	0.78	Supplemental DWR Erosion Survey		WS Ma	U	Inspector Comments: 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The site is located immediately upstream of a Railroad bridge. Dense vegetation at the water line blocks the view of erosion. [2013 Site ID:RD0524U01RM41.39]	37.936821 ° -121.334582 °	37.936821 ° -121.334582 °	55 Y	
										DWR ID:	
14	0.78	0.78	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense vegetation at landside toe along fence line.	37.936555 ° -121.334847 °	37.936555 ° -121.334847 °	262 Y	
										DWR ID: DWR_RD0524_01_s_2012_262	
15	0.79	0.79	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.936444 ° -121.334797 °	37.936444 ° -121.334797 °	76 Y	
										DWR ID: DWR_RD0524_01_s_2012_76	
16	0.82	0.82	Earthen Levee	Erosion / Bank Caving	LS Ma	U	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Several holes and finger erosions on landward slope.	37.936093 ° -121.334648 °	37.936004 ° -121.334615 °	2 Y	
										DWR ID: DWR_RD0524_01_f_2013_2	
17	0.83	0.84	Supplemental DWR Erosion Survey		WS Ma	U	Inspector Comments: 08/13/2013: Site was discovered during boat survey. The dense vegetation blocks a clear view of the erosion. Size of erosion site was very roughly estimated. [2013 Site ID:RD0524U01RM41.44]	37.935930 ° -121.334133 °	37.935930 ° -121.334133 °	79 Y	
										DWR ID:	
18	0.91	0.91	Supplemental DWR Erosion Survey		WS Ma	U	Inspector Comments: 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The erosion site is immediately downstream of the riprap protection. [2013 Site ID:RD0524U01RM41.5]	37.935576 ° -121.333202 °	37.935576 ° -121.333202 °	90 Y	
										DWR ID:	
19	0.92	0.92	Earthen Levee	Encroachments	WS Ma	M	PI : Pipe Inspector Comments: Inch and half metal pipe should be removed.	37.935267 ° -121.332985 °	37.935267 ° -121.332985 °	122 Y	
										DWR ID: DWR_RD0524_01_s_2013_122	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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+ Issue Type
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A/W : Acceptable but Monitor & Maintain

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
20	0.94	1.02	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level.	37.935259 ° -121.332864 °	37.935049 ° -121.331334 °	77 Y	DWR ID: DWR_RD0524_01_s_2012_77	
21	0.97	0.97	Earthen Levee	Trim / Thin Trees	WS Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.935181 ° -121.332297 °	37.935181 ° -121.332297 °	20 Y	DWR ID: DWR_RD0524_01_f_2013_20	
22	1.00	1.01	Supplemental DWR Erosion Survey		WS Ma C	Inspector Comments: 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. Site has been repaired, but new erosion occurred at the levee slope and immediately upstream of the repaired site. 08/23/2011: The site is about 500 ft downstream of bridge. The levee toe seems to be protected, but the protection is being washed away. [2013 Site ID:RD0524U01RM41.59]	37.935326 ° -121.331537 °	37.935326 ° -121.331537 °	99 Y		
23	1.00	1.00	Supplemental DWR Erosion Survey		WS Ma U	Inspector Comments: 08/13/2013: No significant change at this site. 08/07/2012: The erosion was discovered during the boat survey. [2013 Site ID:RD0524U01RM41.58]	37.935410 ° -121.331560 °	37.935410 ° -121.331560 °	125 Y		
24	1.03	1.03	Earthen Levee	Erosion / Bank Caving	WS M Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Minor erosion was noted next to repaired site.	37.935018 ° -121.331248 °	37.935098 ° -121.331645 °	17 Y	DWR ID: DWR_RD0524_01_s_2012_17	
25	1.09	1.09	Earthen Levee	Slope Stability	LS M Ma	S1 : Repair slope instability.	37.934645 ° -121.330310 °	37.934645 ° -121.330310 °	18 Y	DWR ID: DWR_RD0524_01_s_2012_18	
26	1.14	1.17	Earthen Levee	Trim / Thin Trees	WS M Ma	T1 : Trim trees to at least five feet above ground level.	37.934118 ° -121.329657 °	37.933775 ° -121.329305 °	19 Y	DWR ID: DWR_RD0524_01_s_2012_19	

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
27	1.16	1.24	Supplemental DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. No significant changes observed 08/23/2011: No significant changes observed on site. 9/07/2010: No significant changes observed on site. Vegetation is visible at the water line. There is an exposed pipe discharge partially hanging at the mid-slope, possibly still used for discharging irrigation/runoff water. There is minimal rip rap protection along the bank, and what's left of it is no longer adequately protecting the bank. 9/29/2009: Site consists of a 400-foot long eroding bank with minimal vegetation and protection; the existing rip rap has sloughed, rendering it useless; note that there is an exposed section of a pipe. 10/18/2006: There is extensive loss of rip rap on some sections; sewage disposal pond is on the landside of the levee; there is an exposed pipe outlet "hanging" from the upper slope. [2013 Site ID:RD0524U01RM41.79]			37.933347 °	37.933347 °	126
								-121.329110 °	-121.329110 °	Y	
28	1.17	1.25	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.		37.933775 °	37.932784 °	915	
								-121.329250 °	-121.328765 °	Y	
DWR ID: DWR_RD0524_01_s_2012_915											
29	1.26	1.26	Earthen Levee	Encroachments	LS U En	RA : Ramp Inspector Comments: Unauthorized ramps on landside slope. Ramps were caused by vehicle traffic.		37.932533 °	37.932533 °	263	
								-121.328650 °	-121.328650 °	Y	
DWR ID: DWR_RD0524_01_s_2012_263											
30	1.29	1.32	Supplemental DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: New signs of animal activity were found. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2013 Site ID:RD0524U01RM41.92]		37.931858 °	37.931858 °	127	
								-121.328300 °	-121.328300 °	Y	
DWR ID:											
31	1.31	1.31	Earthen Levee	Encroachments	WS M Ma	PI : Pipe Inspector Comments: Pipe is not in use and needs to be properly abandoned.		37.931948 °	37.931948 °	33	
								-121.328387 °	-121.328387 °	Y	
DWR ID: DWR_RD0524_01_s_2012_33											
32	1.33	1.37	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C3 : Add appropriate gravel or road base. Grade and compact.		37.931658 °	37.931085 °	130	
								-121.328255 °	-121.328112 °		
DWR ID: DWR_RD0524_01_s_2013_130											
33	1.39	1.39	Supplemental DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The site is located about 750 ft downstream of SR 4 Bridge. [2013 Site ID:RD0524U01RM42.03]		37.930575 °	37.930575 °	128	
								-121.328090 °	-121.328090 °	Y	
DWR ID:											

* Location
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** Rating	+ Issue Type
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo	
	Start	End						Start	End			
34	1.45	1.47	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS Ma	U	Inspector Comments: 08/13/2013: The site is located approximately 400 ft downstream SR 4 Bridge. Dense vegetation is visible at the toe. [2013 Site ID:RD0524U01RM42.09]	37.929650 °	37.929650 °	129	-121.328110 °	-121.328110 ° Y
								DWR ID:				
35	1.51	1.51	Earthen Levee	Trim / Thin Trees	LS Ma	M	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.929118 °	37.929118 °	916	-121.328368 °	-121.328368 ° Y
								DWR ID: DWR_RD0524_01_s_2012_916				
36	1.56	1.74	Earthen Levee	Vegetation	LS Ma	U	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.928388 °	37.926497 °	23	-121.328280 °	-121.326248 ° Y
								DWR ID: DWR_RD0524_01_s_2012_23				
37	1.58	1.64	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS Ma	U	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: : The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. Trees concerned still in place. 09/07/2010: No significant changes observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection. 09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank. [2013 Site ID:RD0524U01RM42.2]	37.927770 °	37.927770 °	131	-121.327870 °	-121.327870 ° Y
								DWR ID:				
38	1.60	1.60	Earthen Levee	Slope Stability	CR Ma	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.927775 °	37.927775 °	136	-121.327860 °	-121.327860 ° Y
								DWR ID: DWR_RD0524_01_s_2013_136				
39	1.62	1.63	Earthen Levee	Vegetation	LS Ma	U	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.927635 °	37.927540 °	24	-121.327812 °	-121.327648 ° Y
								DWR ID: DWR_RD0524_01_s_2012_24				
40	1.62	1.63	Earthen Levee	Vegetation	WS Ma	U	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.927635 °	37.927540 °	25	-121.327812 °	-121.327648 ° Y
								DWR ID: DWR_RD0524_01_s_2012_25				
41	1.63	1.66	Earthen Levee	Erosion / Bank Caving	WS Ma	M	E1 : Note and monitor erosion site.	37.927507 °	37.927295 °	26	-121.327593 °	-121.327298 °
								DWR ID: DWR_RD0524_01_s_2012_26				
42	1.64	1.64	Earthen Levee	Encroachments	WS En	U	PO : Pole Inspector Comments: Landowner constructed boat dock without permission from the CVFPB.	37.927372 °	37.927372 °	39	-121.327278 °	-121.327278 ° Y
								DWR ID: DWR_RD0524_01_s_2012_39				
43	1.66	1.70	Earthen Levee	Trim / Thin Trees	WS Ma	N	T5 : Tree stumps. Inspector Comments: Several tree stumps on waterside shoulder.	37.927255 °	37.926855 °	8	-121.327137 °	-121.326672 °
								DWR ID: DWR_RD0524_01_s_2012_8				

* Location
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+ Issue Type
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
44	1.69	1.69	Earthen Levee	Encroachments	WS Ma	M	ST : Stairway Inspector Comments: Stairs and retaining wall	37.927018 ° -121.326872 °	37.927018 ° -121.326872 °	45	Y
										DWR ID: DWR_RD0524_01_s_2012_45	
45	1.71	1.73	Earthen Levee	Slope Stability	WS Ma	M	S1 : Repair slope instability.	37.926728 ° -121.326597 °	37.926730 ° -121.326508 °	27	Y
										DWR ID: DWR_RD0524_01_s_2012_27	
46	1.75	1.75	Earthen Levee	Encroachments	LS Ma	M	GA : Garbage Inspector Comments: Large pruning piles on landside slope.	37.926322 ° -121.326115 °	37.926322 ° -121.326115 °	28	Y
										DWR ID: DWR_RD0524_01_s_2012_28	
47	1.77	1.77	Earthen Levee	Trim / Thin Trees	LS Ma	M	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.925993 ° -121.325777 °	37.926152 ° -121.325927 °	46	Y
										DWR ID: DWR_RD0524_01_s_2012_46	
48	1.80	1.80	Earthen Levee	Encroachments	LS A/W Ma	PR	: Prunings	37.925752 ° -121.325592 °	37.925752 ° -121.325592 °	100	Y
										DWR ID: DWR_RD0524_01_s_2012_100	
49	1.82	1.82	Earthen Levee	Encroachments	LS A/W En	GA	: Garbage Inspector Comments: Landowner storing appliances and equipment at landside toe.	37.925365 ° -121.325223 °	37.925365 ° -121.325223 °	103	Y
										DWR ID: DWR_RD0524_01_s_2012_103	
50	1.90	1.95	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	37.924364 ° -121.324473 °	37.923805 ° -121.324238 °	78	Y
										DWR ID: DWR_RD0524_01_s_2012_78	
51	1.95	1.95	Earthen Levee	Vegetation	WSA/W En	W	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo outside of the twenty foot vegetation zone.	37.923808 ° -121.324260 °	37.923808 ° -121.324260 °	104	Y
										DWR ID: DWR_RD0524_01_s_2012_104	
52	2.01	2.01	Earthen Levee	Trim / Thin Trees	LS En	A/W	T1 : Trim trees to at least five feet above ground level.	37.923032 ° -121.323933 °	37.923032 ° -121.323933 °	105	Y
										DWR ID: DWR_RD0524_01_s_2012_105	
53	2.01	2.01	Earthen Levee	Encroachments	LS En	M	ST : Stairway Inspector Comments: Landowner installed rubber tires for a stairway on landside slope.	37.923068 ° -121.323990 °	37.923068 ° -121.323990 °	4	Y
										DWR ID: DWR_RD0524_01_f_2012_4	
54	2.02	2.02	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	37.922923 ° -121.323837 °	37.922923 ° -121.323837 °	106	Y
										DWR ID: DWR_RD0524_01_s_2012_106	
55	2.15	2.22	Earthen Levee	Vegetation	WSA/W Ma	W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.921540 ° -121.322293 °	37.920959 ° -121.321365 °	6	Y
										DWR ID: DWR_RD0524_01_f_2012_6	
56	2.17	2.18	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	Bank	E1 : Note and monitor erosion site.	37.921383 ° -121.322043 °	37.921300 ° -121.321902 °	30	Y
										DWR ID: DWR_RD0524_01_s_2012_30	

* Location
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A/W : Acceptable but Monitor & Maintain
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
57	2.19	2.19	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: No significant change observed. Slightly more vegetation was visible. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2013 Site ID:RD0524U01RM42.79]	37.920992 ° -121.321370 °	37.920992 ° -121.321370 °	132	
58	2.22	2.28	Earthen Levee	Slope Stability	WS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.920992 ° -121.321373 °	37.920505 ° -121.320485 °	31	
										DWR ID: DWR_RD0524_01_s_2012_31	
59	2.25	2.28	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: An irrigation pipe is on site. [2013 Site ID:RD0524U01RM42.84]	37.920650 ° -121.320370 °	37.920650 ° -121.320370 °	133	
										DWR ID:	
60	2.29	2.31	Earthen Levee	Vegetation	LS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.920372 ° -121.320230 °	37.920273 ° -121.320022 °	32	
										DWR ID: DWR_RD0524_01_s_2012_32	
61	2.31	2.33	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: The length of erosion has progressed downstream, and the site length has increased from 12 ft in length last year to 100 feet in length this year. 08/07/2012: The site was first reported in the 2012 spring levee inspection report. The site is located at the inside corner of a river bend. [2013 Site ID:RD0524U01RM42.93]	37.919885 ° -121.319710 °	37.919885 ° -121.319710 °	134	
										DWR ID:	
62	2.34	2.35	Earthen Levee	Slope Stability	WS	M Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Slope damage caused by walking traffic and using bank as a fishing platform.	37.919885 ° -121.319713 °	37.919703 ° -121.319702 °	34	
										DWR ID: DWR_RD0524_01_s_2012_34	
63	2.35	2.35	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.919742 ° -121.319623 °	37.919742 ° -121.319623 °	107	
										DWR ID: DWR_RD0524_01_s_2012_107	
64	2.44	2.48	Earthen Levee	Vegetation	LS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.918498 ° -121.321078 °	37.918515 ° -121.321110 °	35	
										DWR ID: DWR_RD0524_01_s_2012_35	
65	2.46	2.50	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	37.918628 ° -121.320817 °	37.918438 ° -121.321452 °	36	
										DWR ID: DWR_RD0524_01_s_2012_36	
66	2.48	2.48	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.918480 ° -121.321114 °	37.918480 ° -121.321114 °	80	
										DWR ID: DWR_RD0524_01_s_2012_80	
67	2.52	2.52	Earthen Levee	Vegetation	LS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.918345 ° -121.321765 °	37.918302 ° -121.321923 °	37	
										DWR ID: DWR_RD0524_01_s_2012_37	
68	2.53	2.53	Earthen Levee	Vegetation	WS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.918287 ° -121.321980 °	37.918287 ° -121.321980 °	38	
										DWR ID: DWR_RD0524_01_s_2012_38	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
69	2.55	2.59	Earthen Levee	Slope Stability	LS Ma	M	S1 : Repair slope instability.			37.918060 ° -121.322384 °	37.917667 ° -121.322713 °
										DWR ID: DWR_RD0524_01_s_2012_82	
70	2.56	2.56	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.			37.918047 ° -121.322415 °	37.918047 ° -121.322415 °
										DWR ID: DWR_RD0524_01_s_2012_40	
71	2.59	2.59	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.			37.917673 ° -121.322718 °	37.917673 ° -121.322718 °
										DWR ID: DWR_RD0524_01_s_2012_41	
72	2.59	2.59	Earthen Levee	Encroachments	WS En	U	BU : Building			37.917673 ° -121.322718 °	37.917673 ° -121.322718 °
										DWR ID: DWR_RD0524_01_s_2012_42	
73	2.59	2.59	Earthen Levee	Encroachments	WS En	M	RA : Ramp			37.917431 ° -121.322780 °	37.917431 ° -121.322780 °
										DWR ID: DWR_RD0524_01_f_2012_7	
74	2.60	2.60	Earthen Levee	Encroachments	LS En	M	PO : Pole			37.917538 ° -121.322757 °	37.917538 ° -121.322757 °
							Inspector Comments: Old fence poles on landside shoulder and slope should be removed.			DWR ID: DWR_RD0524_01_f_2012_12	
75	2.60	2.60	Earthen Levee	Animal Control	LS Ma	M	A2 : Repair the levee slope damaged by livestock and prevent large animal access.			37.917475 ° -121.322808 °	37.917475 ° -121.322808 °
										DWR ID: DWR_RD0524_01_s_2012_917	
76	2.61	2.61	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.			37.917228 ° -121.322730 °	37.917228 ° -121.322730 °
										DWR ID: DWR_RD0524_01_s_2012_9	
77	2.65	2.65	Supplemental DWR Erosion Survey		WS Ma	U	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2013 Site ID:RD0524U01RM43.23]			37.916650 ° -121.321980 °	37.916650 ° -121.321980 °
										DWR ID:	
78	2.66	2.66	Earthen Levee	Vegetation	LS Ma	M	V4 : Elderberries are blocking visibility and flood fight capability.			37.916780 ° -121.322095 °	37.916780 ° -121.322095 °
										DWR ID: DWR_RD0524_01_s_2012_43	
79	2.67	2.69	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.			37.916718 ° -121.322020 °	37.916502 ° -121.321980 °
										DWR ID: DWR_RD0524_01_s_2012_918	
80	2.67	2.67	Earthen Levee	Encroachments	WS En	U	RA : Ramp			37.916698 ° -121.322007 °	37.916698 ° -121.322007 °
										DWR ID: DWR_RD0524_01_s_2012_920	
81	2.67	2.67	Earthen Levee	Erosion / Bank Caving	WS Ma	M	E2 : Schedule repair of erosion site prior to the next inspection.			37.916650 ° -121.321987 °	37.916650 ° -121.321987 °
										DWR ID: DWR_RD0524_01_s_2012_919	
82	2.69	2.80	Earthen Levee	Trim / Thin Trees	LS Ma	M	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trim over hanging trees at least 12 feet above ground level.			37.916418 ° -121.321963 °	37.915142 ° -121.323018 °
										DWR ID: DWR_RD0524_01_s_2012_44	

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+ Issue Type
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End					Start	End	Photo			
83	2.71	2.71	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Large erosion around irrigation pipe.	37.916224 °	37.916224 °	21	-121.322115 °	-121.322115 ° Y
											DWR ID: DWR_RD0524_01_f_2013_21	
84	2.73	2.73	Earthen Levee	Trim / Thin Trees	LS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.915968 °	37.915968 °	264	-121.322275 °	-121.322275 °
											DWR ID: DWR_RD0524_01_s_2012_264	
85	2.73	2.77	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.915747 °	37.915492 °	60	-121.322470 °	-121.322639 °
											DWR ID: DWR_RD0524_01_s_2012_60	
86	2.77	2.77	Earthen Levee	Encroachments	LS	A/W Ma	TR : Tree or limb Inspector Comments: Broken tree branch.	37.915503 °	37.915503 °	70	-121.322745 °	-121.322745 °
											DWR ID: DWR_RD0524_01_s_2012_70	
87	2.81	2.81	Earthen Levee	Encroachments	WS	M En	PR : Prunings	37.915125 °	37.915125 °	921	-121.323227 °	-121.323227 °
											DWR ID: DWR_RD0524_01_s_2012_921	
88	2.82	2.82	Earthen Levee	Vegetation	LS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.915022 °	37.915022 °	48	-121.323443 °	-121.323443 ° Y
											DWR ID: DWR_RD0524_01_s_2012_48	
89	2.83	2.83	Earthen Levee	Trim / Thin Trees	LS	U Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.915063 °	37.915063 °	91	-121.323585 °	-121.323585 ° Y
											DWR ID: DWR_RD0524_01_s_2012_91	
90	2.88	2.88	Earthen Levee	Vegetation	LS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.914427 °	37.914427 °	49	-121.324198 °	-121.324198 ° Y
											DWR ID: DWR_RD0524_01_s_2012_49	
91	2.93	2.95	Earthen Levee	Encroachments	LS	U Ma	PR : Prunings	37.913767 °	37.913503 °	50	-121.324427 °	-121.324488 ° Y
											DWR ID: DWR_RD0524_01_s_2012_50	
92	2.96	2.96	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.913415 °	37.913415 °	51	-121.324503 °	-121.324503 °
											DWR ID: DWR_RD0524_01_s_2012_51	
93	2.96	2.96	Supplemental DWR Erosion Survey		WS	U Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2013 Site ID:RD0524U01RM43.52]	37.913010 °	37.913010 °	139	-121.324490 °	-121.324490 ° Y
											DWR ID:	
94	3.04	3.04	Earthen Levee	Animal Control	LS	M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	37.912163 °	37.912163 °	924	-121.324702 °	-121.324702 °
											DWR ID: DWR_RD0524_01_s_2012_924	
95	3.10	3.12	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.911382 °	37.911088 °	925	-121.324928 °	-121.325113 °
											DWR ID: DWR_RD0524_01_s_2012_925	

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo	
	Start	End						Start	End			
96	3.23	3.31	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS	C Ma	Inspector Comments: 08/13/2013: New erosion was found at the levee toe. Trees are present. 08/07/2012: The site has been repaired. Protecting riprap revetment has been placed at the levee shoulder and slope, but minor erosions are visible at the levee toe. 08/23/2011: Sloughing rip rap is visible on the site [2013 Site ID:RD0524U01RM43.83]	37.908544 °	37.908544 °	140	-121.324894 °	-121.324894 °
97	3.29	3.31	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: The levee toe seems to have been protected by river rocks and vegetation on site. [2013 Site ID:RD0524U01RM43.86]	37.908090 °	37.908090 °	141	-121.325090 °	-121.325090 ° Y
98	3.33	3.35	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.908158 °	37.907872 °	926	-121.325418 °	-121.325443 °
99	3.37	3.40	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.907645 °	37.907157 °	52	-121.325442 °	-121.325408 °
100	3.38	3.39	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	37.907407 °	37.907177 °	92	-121.325435 °	-121.325392 ° Y
101	3.39	3.45	Earthen Levee	Animal Control	WS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.907283 °	37.906503 °	53	-121.325432 °	-121.325002 °
102	3.43	3.49	Earthen Levee	Trim / Thin Trees	LS	U Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.906747 °	37.906192 °	54	-121.325248 °	-121.324543 ° Y
103	3.45	3.45	Earthen Levee	Encroachments	LS	M Ma	MA : Material Inspector Comments: Broken concrete pipes	37.906540 °	37.906540 °	56	-121.325015 °	-121.325015 ° Y
104	3.47	3.47	Earthen Levee	Trim / Thin Trees	LS	U Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.906265 °	37.906265 °	93	-121.324643 °	-121.324643 ° Y
105	3.53	3.53	Earthen Levee	Encroachments	LS	M En	RA : Ramp Inspector Comments: Unauthorized ramp on landside slope.	37.905552 °	37.905552 °	265	-121.323847 °	-121.323847 ° Y
106	3.54	3.64	Earthen Levee	Trim / Thin Trees	LS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.905638 °	37.904430 °	57	-121.323892 °	-121.324570 °
107	3.55	3.58	Supplemental DWR Erosion Survey	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The levee toe has been cut off along a 150 ft. long river stretch. The erosion is located just upstream of a river bend. [2013 Site ID:RD0524U01RM44.13]	37.904630 °	37.904630 °	142	-121.323610 °	-121.323610 ° Y
DWR ID:												

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.		
	Start	End						Start	End			
108	3.65	3.65	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping Inspector Comments: Landowner planted cactus on landside toe.	37.904375 °	37.904375 °	124	-121.324615 °	-121.324615 ° Y
											DWR ID: DWR_RD0524_01_f_2012_124	
109	3.68	3.68	Earthen Levee	Slope Stability	WS Ma	M	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landowner cut steps into waterside slope.	37.904113 °	37.904113 °	58	-121.325080 °	-121.325080 ° Y
											DWR ID: DWR_RD0524_01_s_2012_58	
110	3.80	3.80	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.902645 °	37.902645 °	927	-121.326340 °	-121.326340 °
											DWR ID: DWR_RD0524_01_s_2012_927	
111	3.82	3.82	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.902417 °	37.902417 °	59	-121.326482 °	-121.326482 °
											DWR ID: DWR_RD0524_01_s_2012_59	
112	3.82	3.82	Earthen Levee	Encroachments	CR En	M	EQ : Equipment Inspector Comments: Landowner installed water filter piping system without permit.	37.902365 °	37.902365 °	266	-121.326453 °	-121.326453 ° Y
											DWR ID: DWR_RD0524_01_s_2012_266	
113	3.84	3.85	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.902155 °	37.902002 °	928	-121.326523 °	-121.326550 °
											DWR ID: DWR_RD0524_01_s_2012_928	
114	3.89	4.01	Earthen Levee	Encroachments	LS En	M	EQ : Equipment	37.901375 °	37.899745 °	62	-121.326507 °	-121.326630 ° Y
											DWR ID: DWR_RD0524_01_s_2012_62	
115	3.91	3.94	Earthen Levee	Encroachments	LS En	U	EQ : Equipment Inspector Comments: Landowner is storing equipment on landward shoulder and landward toe.	37.901147 °	37.900735 °	95	-121.326453 °	-121.326425 ° Y
											DWR ID: DWR_RD0524_01_f_2013_95	
116	3.92	3.92	Earthen Levee	Vegetation	WS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove cactus	37.900952 °	37.900952 °	94	-121.326443 °	-121.326443 ° Y
											DWR ID: DWR_RD0524_01_s_2012_94	
117	3.93	3.93	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.900854 °	37.900854 °	83	-121.326438 °	-121.326438 °
											DWR ID: DWR_RD0524_01_s_2012_83	
118	4.06	4.06	Earthen Levee	Encroachments	LS En	U	RA : Ramp Inspector Comments: Unauthorized ramp. Ramp does not meet Title 23 standard.	37.899027 °	37.899027 °	101	-121.326982 °	-121.326982 ° Y
											DWR ID: DWR_RD0524_01_s_2012_101	
119	4.07	4.07	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.898925 °	37.898925 °	61	-121.327015 °	-121.327015 °
											DWR ID: DWR_RD0524_01_s_2012_61	
120	4.08	4.13	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.898832 °	37.898090 °	64	-121.327092 °	-121.327457 °
											DWR ID: DWR_RD0524_01_s_2012_64	

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** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector		
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.			
	Start	End						Start	End				
121	4.13	4.13	Earthen Levee	Slope Stability	LS Ma	M	S1 : Repair slope instability.	37.898035 °	37.898035 °	108	-121.327447 °	-121.327447 ° Y	DWR ID: DWR_RD0524_01_s_2012_108
122	4.19	4.19	Earthen Levee	Encroachments	LS En	C	PI : Pipe Inspector Comments: Remove old pipes on landside slope.	37.897258 °	37.897258 °	137	-121.327827 °	-121.327827 °	DWR ID: DWR_RD0524_01_s_2013_137
123	4.19	4.19	Earthen Levee	Encroachments	LS En	M	RA : Ramp Inspector Comments: Two unauthorized ramps on landward slope.	37.897103 °	37.897103 °	110	-121.327895 °	-121.327895 ° Y	DWR ID: DWR_RD0524_01_s_2012_110
124	4.19	4.19	Interior Drainage & Piping Systems	Metal Pipes	WS Ma	M	Inspector Comments: Landowner has temporarily repaired pipe with tape. Pipe should be replaced to stop further damage to the levee.	37.897113 °	37.897113 °	109	-121.327895 °	-121.327895 ° Y	DWR ID: DWR_RD0524_01_s_2012_109
125	4.40	4.56	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.894587 °	37.892493 °	65	-121.329253 °	-121.328267 °	DWR ID: DWR_RD0524_01_s_2012_65
126	4.42	4.42	Earthen Levee	Encroachments	LS En	M	TR : Tree or limb Inspector Comments: Dead tree at landside toe should be removed from levee toe.	37.894258 °	37.894258 °	111	-121.329247 °	-121.329247 ° Y	DWR ID: DWR_RD0524_01_s_2012_111
127	4.44	4.58	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.893928 °	37.892230 °	112	-121.329203 °	-121.328187 °	DWR ID: DWR_RD0524_01_s_2012_112
128	4.53	4.54	Supplemental Erosion Survey	DWR Erosion Survey	WS Ma	U	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: Erosion is located at the inside of a river bend. Site is covered with broken concrete blocks and other debris. [2013 Site ID:RD0524U01RM45.07]	37.892230 °	37.892230 °	143	-121.327930 °	-121.327930 ° Y	DWR ID:
129	4.57	4.57	Earthen Levee	Encroachments	WS En	M	PR : Prunings	37.892368 °	37.892368 °	102	-121.328200 °	-121.328200 ° Y	DWR ID: DWR_RD0524_01_s_2012_102
130	4.64	4.64	Earthen Levee	Encroachments	LS Ma	M	GA : Garbage	37.891365 °	37.891365 °	66	-121.328633 °	-121.328633 ° Y	DWR ID: DWR_RD0524_01_s_2012_66
131	4.65	4.65	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.891285 °	37.891285 °	63	-121.328728 °	-121.328728 ° Y	DWR ID: DWR_RD0524_01_s_2012_63
132	4.67	4.67	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.890973 °	37.890973 °	113	-121.328970 °	-121.328970 ° Y	DWR ID: DWR_RD0524_01_s_2012_113

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LWR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
133	4.71	4.71	Supplemental DWR Erosion Survey	WS M	Ma	Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Cracking erosion along the levee bank. Erosion appears to be caused by river flows. [2013 Site ID:RD0524U01RM45.27]	37.889809 ° -121.329342 °	37.889809 ° -121.329342 °	144	DWR ID:	
134	4.74	4.74	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Fig tree at landside toe.	37.890108 ° -121.329523 °	37.890108 ° -121.329523 °	67	DWR ID: DWR_RD0524_01_s_2012_67	
135	4.98	4.98	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.887277 ° -121.331609 °	37.887277 ° -121.331609 °	84	DWR ID: DWR_RD0524_01_s_2012_84	
136	5.01	5.03	Earthen Levee	Vegetation	LS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.886907 ° -121.331862 °	37.886673 ° -121.331965 °	114	DWR ID: DWR_RD0524_01_s_2012_114	
137	5.11	5.11	Earthen Levee	Trim / Thin Trees	LS U Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.885400 ° -121.332153 °	37.885400 ° -121.332153 °	68	DWR ID: DWR_RD0524_01_s_2012_68	
138	5.17	5.17	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.884592 ° -121.332168 °	37.884592 ° -121.332168 °	71	DWR ID: DWR_RD0524_01_s_2012_71	
139	5.20	5.20	Earthen Levee	Trim / Thin Trees	LS M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.884075 ° -121.332118 °	37.884075 ° -121.332118 °	72	DWR ID: DWR_RD0524_01_s_2012_72	
140	5.24	5.24	Earthen Levee	Slope Stability	LS M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Vehicle traffic created a ramp on landward slope.	37.883587 ° -121.332100 °	37.883587 ° -121.332100 °	115	DWR ID: DWR_RD0524_01_s_2012_115	
141	5.26	5.26	Earthen Levee	Encroachments	WS M En	TR : Tree or limb Inspector Comments: Dead tree limbs on waterside slope.	37.883170 ° -121.332227 °	37.883170 ° -121.332227 °	116	DWR ID: DWR_RD0524_01_s_2012_116	
142	5.32	5.38	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.882377 ° -121.332598 °	37.881498 ° -121.332800 °	85	DWR ID: DWR_RD0524_01_s_2012_85	
143	5.38	5.38	Supplemental DWR Erosion Survey	WS U Ma	Inspector Comments: 08/13/2013: Erosion seems to be getting worse. More material sloughing visible. 08/07/2012: Erosion is underneath an irrigation pipe. The likely cause of the erosion is the pipe leakage. [2013 Site ID:RD0524U01RM45.97]	37.880320 ° -121.333266 °	37.880320 ° -121.333266 °	147	DWR ID:		
144	5.43	5.46	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.880945 ° -121.332837 °	37.880522 ° -121.332918 °	932	DWR ID: DWR_RD0524_01_s_2012_932	

* Location
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CR : Crown

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector		
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.			
	Start	End						Start	End				
145	5.46	5.46	Earthen Levee	Animal Control	LS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.880575 °	37.880575 °	931			
								-121.332890 °	-121.332890 °				
								DWR ID: DWR_RD0524_01_s_2012_931					
146	5.47	5.47	Earthen Levee	Slope Stability	LS Ma	M	S1 : Repair slope instability. Inspector Comments: Slope damage caused by human activity.	37.880323 °	37.880323 °	118			
								-121.332968 °	-121.332968 °	Y			
								DWR ID: DWR_RD0524_01_s_2012_118					
147	5.48	5.48	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.880085 °	37.880085 °	73			
								-121.333045 °	-121.333045 °				
								DWR ID: DWR_RD0524_01_s_2012_73					
148	5.57	5.57	Earthen Levee	Trim / Thin Trees	WS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.878918 °	37.878918 °	96			
								-121.333148 °	-121.333148 °				
								DWR ID: DWR_RD0524_01_s_2012_96					
149	5.61	5.61	Supplemental DWR Erosion Survey		WS Ma	M	Inspector Comments: 08/13/2013: Larger trees are at the levee shoulder, and an irrigation pump station is next to the erosion site. [2013 Site ID:RD0524U01RM46.06]	37.878920 °	37.878920 °	148			
								-121.332670 °	-121.332670 °	Y			
								DWR ID:					
150	5.65	5.66	Supplemental DWR Erosion Survey		WS Ma	U	Inspector Comments: 08/13/2013: The boat survey found no significant change at this site, except slight animal activity was visible at the site. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. 09/07/2010: No significant changes observed on site. Erosion site is located beneath Howard Road Bridge. Majority of the existing rip rap has slipped, dragging away levee materials and exposing the underlying soft soil. 08/06/2010: Recommend for annual assessment and monitoring during flood events, per CLRO. 09/30/2009: No major changes observed since the last visit; upper portion of existing revetment has slipped, exposing the degrading bank; note that site # is the same as RM46.30, LM5.69 found in the CLRO CES Evaluation 2008 Report; site was previously rated "M". 11/04/2008: Previously repaired using rock revetment; upper portion of the revetment is sliding, causing deformation on the levee slope; site is upstream of Howards Road Bridge. [2013 Site ID:RD0524U01RM46.12]				37.877880 °	37.877880 °	145
								-121.332550 °	-121.332550 °	Y			
								DWR ID:					
151	5.69	5.69	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.877272 °	37.877272 °	117			
								-121.332400 °	-121.332400 °				
								DWR ID: DWR_RD0524_01_f_2013_117					
152	5.84	5.84	Earthen Levee	Encroachments	LS Ma	M	PR : Prunings Inspector Comments: Prunings at landside toe should be burned or removed.	37.875328 °	37.875328 °	267			
								-121.333050 °	-121.333050 °				
								DWR ID: DWR_RD0524_01_s_2012_267					

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A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
153	5.86	5.86	Supplemental DWR Erosion Survey		WS U Ma		Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The erosion is near a water-intake structure. Pipe leakage likely caused the erosion. [2013 Site ID:RD0524U01RM46.39]	37.874370 °	37.874370 °	146	
								-121.332850 °	-121.332850 °	Y	
154	5.86	5.86	Earthen Levee	Animal Control	LS A/W Ma	A3	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: District has grouted rodent holes.	37.877298 °	37.875073 °	69	
								-121.332343 °	-121.333168 °		
155	5.92	5.94	Earthen Levee	Animal Control	WSA/W Ma	A3	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: District has grouted rodent holes.	37.874240 °	37.874002 °	75	
								-121.333187 °	-121.333027 °		
156	5.92	5.92	Earthen Levee	Erosion / Bank Caving	WS M Ma	E1	Note and monitor erosion site.	37.874240 °	37.874165 °	74	
								-121.333185 °	-121.333155 °	Y	
157	5.93	5.93	Earthen Levee	Slope Stability	LS U Ma	S3	Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Landowner is using damaged area as a ramp.	37.873893 °	37.873893 °	119	
								-121.332978 °	-121.332978 °	Y	
158	5.97	5.97	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1	Trim trees to at least five feet above ground level.	37.873678 °	37.873678 °	86	
								-121.332550 °	-121.332550 °		
159	5.99	6.00	Earthen Levee	Encroachments	LS M En	FE	Fence	37.873545 °	37.873445 °	87	
								-121.332308 °	-121.332127 °		
160	5.99	6.00	Earthen Levee	Vegetation	LS U En	V6	Landscaping Inspector Comments: Cactus	37.873543 °	37.873445 °	88	
								-121.332308 °	-121.332127 °	Y	
161	6.01	6.01	Earthen Levee	Trim / Thin Trees	LS M Ma	T1	Trim trees to at least five feet above ground level.	37.873347 °	37.873347 °	120	
								-121.332028 °	-121.332028 °		
162	6.01	6.05	Earthen Levee	Encroachments	LS U En	BU	Building Inspector Comments: Garbage also located next to abandoned trailer.	37.873377 °	37.873102 °	89	
								-121.331977 °	-121.331382 °	Y	
163	6.02	6.02	Earthen Levee	Trim / Thin Trees	LS M Ma	T1	Trim trees to at least five feet above ground level.	37.873300 °	37.873300 °	81	
								-121.331928 °	-121.331928 °		
164	6.05	6.05	Earthen Levee	Slope Stability	LS M Ma	S2	Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landowner cut steps into landside slope.	37.873047 °	37.873047 °	933	
								-121.331408 °	-121.331408 °	Y	
										DWR ID: DWR_RD0524_01_s_2012_933	

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	Photo
165	6.21	6.21	Earthen Levee	Encroachments	WS M Ma	PI : Pipe	Inspector Comments: Open abandoned 10" pipe on waterside slope below flood elevation. Pipe should be removed or properly abandoned.			37.871137 ° -121.330138 °	37.871137 ° -121.330138 ° Y
166	6.23	6.23	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.				37.870842 ° -121.330000 °	37.870842 ° -121.330000 °
167	6.23	6.23	Earthen Levee	Vegetation	LS A/W V2 : Remove the wild growth other than native grasses Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.				37.870840 ° -121.329993 °	37.870840 ° -121.329993 °
											DWR ID: DWR_RD0524_01_s_2012_97

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of erosion.



SJR2013_RD0524U01RM40.85_2.jpg

Levee Mile Report Line	5
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking west at 3" depression on levee crown.
(Spring 2012)



richard_f_20130930_783.jpg

Levee Mile Report Line	5
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking east at 3" depression on levee crown.
(Spring 2012)



richard_f_20130930_784.jpg

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking west at depression on levee crown near waterward shoulder.	
richard_f_20131024_123.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.36
End Levee Mile	0.36
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Garbage pile at landward toe at LM 0.36.	
richard_f_20130930_800.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.40
End Levee Mile	0.40
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion site. Note the vegetation at the levee toe and lower slope.	
SJR2013_RD0524U01RM40.99_1.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	0.63
End Levee Mile	0.63
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking east at waterside erosion appears to be caused by runoff.	
richard_f_20130930_789.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at bamboo on waterside slope. (Spring 2012)	
richard_f_20130930_790.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south at bamboo on waterside slope. (Fall Inspection 2012)	
richard_f_20130930_791.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south at dying bamboo on waterward slope. (Spring 2013)	
richard_f_20130930_792.JPG	



Levee Mile Report Line	11
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Erosion from LM 0.65 to 0.66	
richard_f_20130930_794.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Update of erosion site at LM 0.65 to 0.66	
richard_f_20130930_795.jpg	



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+ Issue Type
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Ob : Design & System Obsolescence
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking south at erosion on waterside shoulder.	
richard_f_20130930_796.jpg	



Levee Mile Report Line	12
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at bamboo on waterside shoulder as of 4/2010.	
richard_f_20130930_797.jpg	



Levee Mile Report Line	12
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south at bamboo on waterside slope. (Fall 2012)	
richard_f_20130930_798.JPG	



* Location
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WS : Water Side
CR : Crown

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south at dying bamboo on waterward slope. (Spring 2013)	
richard_f_20130930_799.JPG	



Levee Mile Report Line	13
Start Levee Mile	0.77
End Levee Mile	0.78
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Upstream view of the erosion site.	
SJR2013_RD0524U01RM41.39_1.jpg	



Levee Mile Report Line	14
Start Levee Mile	0.78
End Levee Mile	0.78
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense vegetation on landside toe.	
richard_f_20130930_908.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

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+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	0.78
End Levee Mile	0.78
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at vegetation on landward slope and toe. (Spring 2013)	
richard_f_20130930_909.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southwest at low hanging tree branches at landside toe.	
richard_f_20130930_856.jpg	



Levee Mile Report Line	16
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking southwest at hole on landward shoulder.	
richard_f_20131024_131.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking west at hole on landward shoulder.	
richard_f_20131030_132.JPG	



Levee Mile Report Line	16
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking northeast at several finger erosion on landward slope.	
richard_f_20131030_133.JPG	



Levee Mile Report Line	16
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking east at erosion on landward slope.	
richard_f_20131030_134.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking southeast at finger erosion on landward slope.	
richard_f_20131030_135.JPG	



Levee Mile Report Line	17
Start Levee Mile	0.83
End Levee Mile	0.84
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion. The tree and vegetation blocks the view of the site.	
SJR2013_RD0524U01RM41.44_1.jpg	



Levee Mile Report Line	18
Start Levee Mile	0.91
End Levee Mile	0.91
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion. Note the riprap protection near the site.	
SJR2013_RD0524U01RM41.5_1.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	19
Start Levee Mile	0.92
End Levee Mile	0.92
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at inch and half metal pipe on waterward slope.	
richard_f_20130930_893.JPG	



Levee Mile Report Line	20
Start Levee Mile	0.94
End Levee Mile	1.02
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking south at low hanging tree branches at landside toe.	
richard_f_20130930_857.jpg	



Levee Mile Report Line	23
Start Levee Mile	1.00
End Levee Mile	1.00
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion.	
SJR2013_RD0524U01RM41.58_1.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	24
Start Levee Mile	1.03
End Levee Mile	1.03
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking upstream (south) at erosion site.	
richard_f_20130930_801.jpg	



Levee Mile Report Line	24
Start Levee Mile	1.03
End Levee Mile	1.03
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at erosion site next to repaired site. (Spring 2012)	
richard_f_20130930_802.jpg	



Levee Mile Report Line	24
Start Levee Mile	1.03
End Levee Mile	1.03
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking southeast at erosion next to repaired site on waterward slope (Spring 2013)	
richard_f_20130930_803.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	25
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Landward slope damage at LM 1.09.	
richard_f_20130930_804.jpg	



Levee Mile Report Line	25
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Updated picture of the erosion site on the landside shoulder.	
richard_f_20130930_805.jpg	



Levee Mile Report Line	25
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Updated view from above the slope stability.	
richard_f_20130930_806.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	25
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking at updated slope stability as of 4/2010.

richard_f_20130930_807.jpg



Levee Mile Report Line	25
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at caving on landside shoulder.
(Spring 2012)

richard_f_20130930_808.jpg



Levee Mile Report Line	26
Start Levee Mile	1.14
End Levee Mile	1.17
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northwest at low hanging tree branches at waterside toe.

richard_f_20130930_809.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	27
Start Levee Mile	1.16
End Levee Mile	1.24
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the site.



SJR2013_RD0524U01RM41.79_1.jpg

Levee Mile Report Line	28
Start Levee Mile	1.17
End Levee Mile	1.25
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at dense veg. on landside toe.



Levee Mile Report Line	29
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized ramp on landside slope.



richard_f_20130930_917.jpg

richard_f_20130930_910.jpg

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	29
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at unauthorized ramp on landside slope.	
richard_f_20130930_911.jpg	



Levee Mile Report Line	30
Start Levee Mile	1.29
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion.	
SJR2013_RD0524U01RM41.92_3.jpg	



Levee Mile Report Line	31
Start Levee Mile	1.31
End Levee Mile	1.31
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking north at broken pipe.	
richard_f_20130930_819.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	31
Start Levee Mile	1.31
End Levee Mile	1.31
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking west at pipe on landside slope.	
richard_f_20130930_820.jpg	



Levee Mile Report Line	33
Start Levee Mile	1.39
End Levee Mile	1.39
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion.	
SJR2013_RD0524U01RM42.03_2.jpg	



Levee Mile Report Line	34
Start Levee Mile	1.45
End Levee Mile	1.47
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion site.	
SJR2013_RD0524U01RM42.09_1.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	35
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Dense vegetation on landside toe.	
richard_f_20130930_918.jpg	



Levee Mile Report Line	35
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking south at dense veg. on landside slope and toe.	
richard_f_20130930_919.jpg	



Levee Mile Report Line	35
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking south at trees on landside slope. (Fall 2012)	
richard_f_20130930_920.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	36
Start Levee Mile	1.56
End Levee Mile	1.74
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Overgrown landscaping on landward slope from LM 1.56 to 1.74	
richard_f_20130930_810.jpg	



Levee Mile Report Line	37
Start Levee Mile	1.58
End Levee Mile	1.64
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion. Dense vegetation is visible.	
SJR2013_RD0524U01RM42.2_3.jpg	



Levee Mile Report Line	38
Start Levee Mile	1.60
End Levee Mile	1.60
Location	Crown
Category	Earthen Levee
Item	Slope Stability
Looking south at depression on levee crown near wateward shoulder.	
richard_f_20131024_124.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	39
Start Levee Mile	1.62
End Levee Mile	1.63
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at dense vegetation on the landside and waterside slopes.

richard_f_20130930_811.jpg



Levee Mile Report Line	40
Start Levee Mile	1.62
End Levee Mile	1.63
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at dense vegetation on the waterside slope.

richard_f_20130930_812.jpg



Levee Mile Report Line	42
Start Levee Mile	1.64
End Levee Mile	1.64
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking east at non-permitted boat dock.

richard_f_20130930_830.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	42
Start Levee Mile	1.64
End Levee Mile	1.64
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking at garbage on waterside slope.	
<i>richard_f_20130930_831.jpg</i>	



Levee Mile Report Line	44
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking northeast on non-permitted concrete stairs on waterside slope.	
<i>richard_f_20130930_835.jpg</i>	



Levee Mile Report Line	44
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking west at concrete stairs on waterside slope.	
<i>richard_f_20130930_836.jpg</i>	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	44
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at retaining wall connected to concrete stairs.	
richard_f_20130930_837.jpg	



Levee Mile Report Line	46
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at garbage pile on landside toe. (Spring 2012)	
richard_f_20130930_813.jpg	



Levee Mile Report Line	46
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at burned pruning pile on landside slope.	
richard_f_20130930_814.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	47
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southwest at dense vegetation and low hanging tree branches on landside slope and toe.	
richard_f_20130930_838.jpg	



Levee Mile Report Line	48
Start Levee Mile	1.80
End Levee Mile	1.80
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at prunings on landside toe.	
richard_f_20130930_874.jpg	



Levee Mile Report Line	49
Start Levee Mile	1.82
End Levee Mile	1.82
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at garbage and equipment at landside toe.	
richard_f_20130930_877.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	50
Start Levee Mile	1.90
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at landscaping on landside slope. (Spring 2012)	
richard_f_20130930_858.jpg	



Levee Mile Report Line	51
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at bamboo on waterside slope.	
richard_f_20130930_878.jpg	



Levee Mile Report Line	51
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking northeast at sprayed bamboo on waterside slope. (Fall 2012)	
richard_f_20130930_879.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	53
Start Levee Mile	2.01
End Levee Mile	2.01
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at rubber tires being used as stairs on landside slope.	
richard_f_20130930_785.JPG	



Levee Mile Report Line	57
Start Levee Mile	2.19
End Levee Mile	2.19
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Looking from downstream.	
SJR2013_RD0524U01RM42.79_1.jpg	



Levee Mile Report Line	58
Start Levee Mile	2.22
End Levee Mile	2.28
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking south slope damage on waterward shoulder and slope.	
richard_f_20130930_817.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	59
Start Levee Mile	2.25
End Levee Mile	2.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking from upstream.



SJR2013_RD0524U01RM42.84_1.jpg

Levee Mile Report Line	60
Start Levee Mile	2.29
End Levee Mile	2.31
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense veg on landside slope and toe.



richard_f_20130930_818.jpg

Levee Mile Report Line	61
Start Levee Mile	2.31
End Levee Mile	2.33
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking from upstream.



SJR2013_RD0524U01RM42.93_1.jpg

* Location
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CR : Crown

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	62
Start Levee Mile	2.34
End Levee Mile	2.35
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking northeast at damage to the slope possibly caused by human activity.	
richard_f_20130930_821.JPG	



Levee Mile Report Line	64
Start Levee Mile	2.44
End Levee Mile	2.48
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at dense vegetation on landward toe.	
richard_f_20130930_822.JPG	



Levee Mile Report Line	65
Start Levee Mile	2.46
End Levee Mile	2.50
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking east at erosion on waterside slope.	
richard_f_20130930_823.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	66
Start Levee Mile	2.48
End Levee Mile	2.48
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southwest at dense vegetation on landside toe.	
richard_f_20130930_861.jpg	



Levee Mile Report Line	66
Start Levee Mile	2.48
End Levee Mile	2.48
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southwest at dense vegetation and trees on landside slope. (Fall 2012)	
richard_f_20130930_862.JPG	



Levee Mile Report Line	67
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberry on landside slope.	
richard_f_20130930_824.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	67
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at trees along levee landside toe.	
richard_f_20130930_825.jpg	



Levee Mile Report Line	67
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at elderberry and trees on landside slope.	
richard_f_20130930_826.jpg	



Levee Mile Report Line	67
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at dense vegetation on landside toe.	
richard_f_20130930_827.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	68
Start Levee Mile	2.53
End Levee Mile	2.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on waterside slope.

richard_f_20130930_828.jpg



Levee Mile Report Line	68
Start Levee Mile	2.53
End Levee Mile	2.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at elderberry on waterside slope.

richard_f_20130930_829.jpg



Levee Mile Report Line	72
Start Levee Mile	2.59
End Levee Mile	2.59
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking at animal pens on landside slope and toe.

richard_f_20130930_832.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	72
Start Levee Mile	2.59
End Levee Mile	2.59
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking west at animal pens on landside toe. (Fall 2012)	
richard_f_20130930_833.JPG	



Levee Mile Report Line	73
Start Levee Mile	2.59
End Levee Mile	2.59
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at unauthorized ramp on waterside slope.	
richard_f_20130930_788.JPG	



Levee Mile Report Line	74
Start Levee Mile	2.60
End Levee Mile	2.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at fence poles on landside shoulder.	
richard_f_20130930_793.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	77
Start Levee Mile	2.65
End Levee Mile	2.65
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Upstream view of erosion. Levee slope protection present upstream of the site.	
<i>SJR2013_RD0524U01RM43.23_1.jpg</i>	



Levee Mile Report Line	80
Start Levee Mile	2.67
End Levee Mile	2.67
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at unauthorized ramp on waterside slope.	
<i>richard_f_20130930_921.jpg</i>	



Levee Mile Report Line	82
Start Levee Mile	2.69
End Levee Mile	2.80
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking north at dense trees overhanging levee crown.	
<i>richard_f_20130930_834.jpg</i>	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

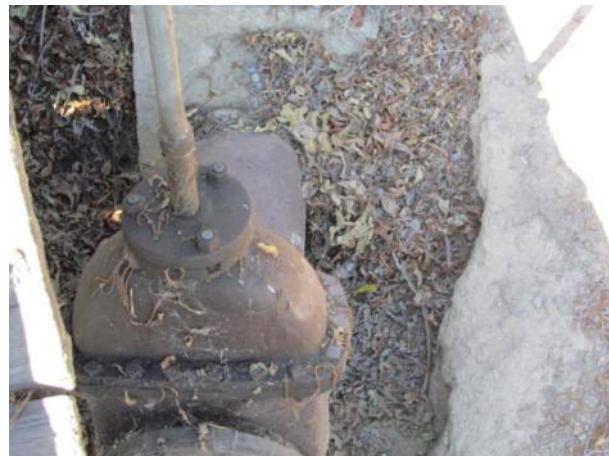
Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	83
Start Levee Mile	2.71
End Levee Mile	2.71
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking east at erosion around irrigation pipe on waterward slope.	
richard_f_20131024_125.JPG	



Levee Mile Report Line	83
Start Levee Mile	2.71
End Levee Mile	2.71
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking at erosion around irrigation pipe on waterward slope.	
richard_f_20131024_126.JPG	



Levee Mile Report Line	88
Start Levee Mile	2.82
End Levee Mile	2.82
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at elderberry on landside slope.(Spring 2011)	
richard_f_20130930_841.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	88
Start Levee Mile	2.82
End Levee Mile	2.82
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense elderberry on landside slope.(Spring 2012)	
richard_f_20130930_842.jpg	



Levee Mile Report Line	89
Start Levee Mile	2.83
End Levee Mile	2.83
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southwest at dense vegetation on landside slope.	
richard_f_20130930_869.JPG	



Levee Mile Report Line	90
Start Levee Mile	2.88
End Levee Mile	2.88
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at elderberry on landside slope.	
richard_f_20130930_843.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	91
Start Levee Mile	2.93
End Levee Mile	2.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at prunings on landside slope.	
richard_f_20130930_844.jpg	



Levee Mile Report Line	93
Start Levee Mile	2.96
End Levee Mile	2.96
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion.	
SJR2013_RD0524U01RM43.52_1.jpg	



Levee Mile Report Line	97
Start Levee Mile	3.29
End Levee Mile	3.31
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion.	
SJR2013_RD0524U01RM43.86_2.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	100
Start Levee Mile	3.38
End Levee Mile	3.39
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at dense landscaping on landside slope.	
richard_f_20130930_870.jpg	



Levee Mile Report Line	102
Start Levee Mile	3.43
End Levee Mile	3.49
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking northwest at dense vegetation on landside slope.	
richard_f_20130930_845.jpg	



Levee Mile Report Line	103
Start Levee Mile	3.45
End Levee Mile	3.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at concrete pipes on landside toe.	
richard_f_20130930_847.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	104
Start Levee Mile	3.47
End Levee Mile	3.47
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking northwest at low hanging tree branches on landside slope and toe.	
richard_f_20130930_871.jpg	



Levee Mile Report Line	105
Start Levee Mile	3.53
End Levee Mile	3.53
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at unauthorized ramp on landside slope and toe.	
richard_f_20130930_912.JPG	



Levee Mile Report Line	107
Start Levee Mile	3.55
End Levee Mile	3.58
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of erosion.	
SJR2013_RD0524U01RM44.13_2.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	108
Start Levee Mile	3.65
End Levee Mile	3.65
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at cactus on landside toe.	
richard_f_20130930_894.JPG	



Levee Mile Report Line	109
Start Levee Mile	3.68
End Levee Mile	3.68
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking southeast steps cut into waterside slope.	
richard_f_20130930_848.jpg	



Levee Mile Report Line	112
Start Levee Mile	3.82
End Levee Mile	3.82
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking south at unauthorized irrigation pipe across levee and water filtration system at landside toe.	
richard_f_20130930_913.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	112
Start Levee Mile	3.82
End Levee Mile	3.82
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking west at water filtration system on landside toe.	
richard_f_20130930_914.jpg	



Levee Mile Report Line	112
Start Levee Mile	3.82
End Levee Mile	3.82
Location	Crown
Category	Earthen Levee
Item	Encroachments
Looking south unauthorized pvc irrigation pipe across the levee crown.	
richard_f_20130930_915.jpg	



Levee Mile Report Line	114
Start Levee Mile	3.89
End Levee Mile	4.01
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking upstream at equipment on landside shoulder	
richard_f_20130930_849.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	114
Start Levee Mile	3.89
End Levee Mile	4.01
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at northend of equipment stored at landward slope and toe.	
richard_f_20130930_850.JPG	



Levee Mile Report Line	115
Start Levee Mile	3.91
End Levee Mile	3.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at farm equipment stored on landward shoulder and toe.	
richard_f_20131024_127.JPG	



Levee Mile Report Line	115
Start Levee Mile	3.91
End Levee Mile	3.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at farm equipment stored at landward toe.	
richard_f_20131024_128.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	115
Start Levee Mile	3.91
End Levee Mile	3.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at farm equipment stored on landward shoulder.	
richard_f_20131024_129.JPG	



Levee Mile Report Line	116
Start Levee Mile	3.92
End Levee Mile	3.92
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at cactus on waterside slope.	
richard_f_20130930_872.jpg	



Levee Mile Report Line	118
Start Levee Mile	4.06
End Levee Mile	4.06
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at unauthorized ramp on landside slope.	
richard_f_20130930_875.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	121
Start Levee Mile	4.13
End Levee Mile	4.13
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking southwest at caving slope on landside of levee.	
richard_f_20130930_880.jpg	



Levee Mile Report Line	123
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at an unauthorized ramp on landside slope.	
richard_f_20130930_885.jpg	



Levee Mile Report Line	124
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes
Looking east at damaged pipe on waterside slope. (Spring 2012)	
richard_f_20130930_881.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	124
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes
Looking east at irrigation system damaging waterside toe.	
richard_f_20130930_882.jpg	



Levee Mile Report Line	124
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes
Looking east at irrigation system on waterside slope.	
richard_f_20130930_883.jpg	



Levee Mile Report Line	124
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes
Looking northeast at overview of irrigation system on waterside slope.	
richard_f_20130930_884.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	126
Start Levee Mile	4.42
End Levee Mile	4.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at dead tree at landside toe.	
richard_f_20130930_886.jpg	



Levee Mile Report Line	128
Start Levee Mile	4.53
End Levee Mile	4.54
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Upstream view of erosion site.	
SJR2013_RD0524U01RM45.07_1.jpg	



Levee Mile Report Line	129
Start Levee Mile	4.57
End Levee Mile	4.57
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at dead tree on waterside slope.	
richard_f_20130930_876.JPG	



* Location
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+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	130
Start Levee Mile	4.64
End Levee Mile	4.64
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Garbage at landward toe next to ramp at LM 4.64	
richard_f_20130930_852.jpg	



Levee Mile Report Line	131
Start Levee Mile	4.65
End Levee Mile	4.65
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking south at dense trees on landside slope.	
richard_f_20130930_851.jpg	



Levee Mile Report Line	132
Start Levee Mile	4.67
End Levee Mile	4.67
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking north at dense trees on landside slope.	
richard_f_20130930_887.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	133
Start Levee Mile	4.71
End Levee Mile	4.71
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion.

SJR2013_RD0524U01RM45.27_2.jpg



Levee Mile Report Line	137
Start Levee Mile	5.11
End Levee Mile	5.11
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at overhanging trees.

richard_f_20130930_853.jpg



Levee Mile Report Line	140
Start Levee Mile	5.24
End Levee Mile	5.24
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking northwest at slope damage on landward slope.

richard_f_20131024_130.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	143
Start Levee Mile	5.38
End Levee Mile	5.38
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

SJR2013_RD0524U01RM45.97_2.jpg



Levee Mile Report Line	146
Start Levee Mile	5.47
End Levee Mile	5.47
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking west at slope damage on landside slope.

richard_f_20130930_888.jpg



Levee Mile Report Line	146
Start Levee Mile	5.47
End Levee Mile	5.47
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking east at slope caving on landside slope.

richard_f_20130930_889.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	146
Start Levee Mile	5.47
End Levee Mile	5.47
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking southeast at damaged slope.	
<i>richard_f_20130930_890.jpg</i>	



Levee Mile Report Line	149
Start Levee Mile	5.61
End Levee Mile	5.61
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion.	
<i>SJR2013_RD0524U01RM46.06_1.jpg</i>	



Levee Mile Report Line	150
Start Levee Mile	5.65
End Levee Mile	5.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Sloughing rip rap adjacent to Howard Bridge.	
<i>SJR2013_RD0524U01RM46.12_2.jpg</i>	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	153
Start Levee Mile	5.86
End Levee Mile	5.86
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Closer view of the erosion.	
	
SJR2013_RD0524U01RM46.39_3.jpg	

Levee Mile Report Line	156
Start Levee Mile	5.92
End Levee Mile	5.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion at waterward toe and around irrigation pipe at LM 5.92	
	
richard_f_20130930_854.jpg	

Levee Mile Report Line	156
Start Levee Mile	5.92
End Levee Mile	5.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking southeast at erosion around pipe.	
	
richard_f_20130930_855.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	157
Start Levee Mile	5.93
End Levee Mile	5.93
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking southwest at damaged slope and ramp on landside slope.	
richard_f_20130930_891.jpg	



Levee Mile Report Line	157
Start Levee Mile	5.93
End Levee Mile	5.93
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking west at unauthorized ramp and landside slope damage.	
richard_f_20130930_892.jpg	



Levee Mile Report Line	160
Start Levee Mile	5.99
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at fence and cactus on landside slope and toe.	
richard_f_20130930_863.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	162
Start Levee Mile	6.01
End Levee Mile	6.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking downstream at building on landside toe.	
<i>richard_f_20130930_864.jpg</i>	



Levee Mile Report Line	162
Start Levee Mile	6.01
End Levee Mile	6.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at garbage on landside toe next to abandoned trailer.	
<i>richard_f_20130930_865.jpg</i>	



Levee Mile Report Line	164
Start Levee Mile	6.05
End Levee Mile	6.05
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking north at steps cut into landward slope.	
<i>richard_f_20130930_923.JPG</i>	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/22/2013 10/22/2013	Richard Willoughby

Levee Mile Report Line	165
Start Levee Mile	6.21
End Levee Mile	6.21
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at abandoned pipe on waterside slope.	
richard_f_20130930_916.jpg	



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